

Standard Course Schedule for Biology 2006-2007

| Freshman Year | | | |
|--|--|--|--|
| Autumn | Winter | Spring | Summer Options |
| Biological Foundations | Biological Foundations | Biological Foundations | |
| English 101—Complete English 101 and 102 by end of year | English 102/101—English 101 may be started this quarter | English 102—if needed | |
| Math—have competency in math through Precalculus. May be met in High School. | Math—Calculus is recommended, but not required. | Math—if needed | |
| Intro Chemistry—take this if you are weak in chemistry | | | |
| Sophomore Year | | | |
| General Chemistry | General Chemistry | General Chemistry | General Physics - take General Physics during the summer to give more time for major requirements during the junior year |
| Principles of Ecology | Intro Research Methods | Animal Behavior | |
| Statistics (MATH 222) | Vertebrate Biology | Flowering Plants | |
| Intro Research Methods (or Winter Quarter) | | | |
| Junior Year | | | |
| Organic Chemistry | Organic Chemistry | Organic Chemistry | Research MCAT review and exam DAT review and exam GRE review and exam |
| General Physics | General Physics | General Physics | |
| Seminar—two required during junior year | Seminar—two required during junior year | Seminar—two required during junior year | |
| Systems Physiology | Cell & Molecular Biology | Genetics | |
| Senior Year | | | |
| Seminar—two required during senior year | Seminar—two required during senior year | Seminar—two required during senior year | |
| Biotechnology | Philosophy of Origins | Adv. Human Anatomy | |
| Developmental Biology | Vertebrate Biology | Flowering Plants | |
| Neurobiology | Medical Microbiology | Animal Behavior | |
| Marine Science | Histology | Immunology | |
| Research – important elective, primarily conducted in the summer | Research – important elective, primarily conducted in the summer | Research – important elective, primarily conducted in the summer | |
| Biochemistry 381 – recommended for premeds and graduate school | | Biochemistry 482 – recommended for premeds and graduate school | |

q **Courses in RED SHOULD BE TAKEN at this time.**

q **Courses in BLUE are Biology Electives that fit well at these times without conflict.**

q **Courses in GREEN are other options.**

Biology Department Advisors:

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|----------------|------------------|--|---------------------------------------|
| • John Duncan | 965-6632 | jduncan@puc.edu | Biology, Physical Therapy |
| • Floyd Hayes | 965-6228 | fhayes@puc.edu | Biology |
| • Bryan Ness | 965-6634 | bness@puc.edu | Biology, Occupational Therapy, Prevet |
| • Robin Vance | 965-6227 (Chair) | rvance@puc.edu | Biology, Premedical Coordinator |
| • Brian Wong | 965-6631 | bwong@puc.edu | Biology, Medical Technology |
| • Aimee Wyrick | 965-6636 | awyrick@puc.edu | Biology, Dental Hygiene |

All departmental advisors may advise Biology majors who are also Premeds and Pre dents.

B.S. in biology requires a minimum of 21 hours of biology electives

B.A. in biology requires a minimum of 9 hours of biology electives and a foreign language requirement

Guidelines Used in Making the Biology Course Schedule (see reverse page)

1. BIOL 111-112-113 should be taken your first year.
2. CHEM 101 Introduction to Chemistry (if needed) plus all Math courses necessary for General Chemistry and General Physics are best completed in your first year. If you have not had Chemistry in high school, it is highly recommended that you also take CHEM 101 during the first quarter.
3. General Chemistry is best taken in the second year. Academically strong students may consider taking it with Biological Foundations in their first year.
4. General Physics should be taken before your fourth year in order to avoid conflicts with Biology electives. Taking General Physics in the summer following your freshman or sophomore year will keep your third year load more reasonable (at two sciences per term) and enable you to perform better.
5. Principles of Ecology and Intro to Research Methods should be taken in your second year. Note that Intro to Research may be taken in either autumn or winter quarters and may be taken concurrently with Statistics (MATH 222). Biology electives (indicated in blue) such as Flowering Plants, Vertebrate Biology, or Animal Behavior may be taken in the second year if this doesn't compromise your performance in General Chemistry. Plan to take most Biology electives in your senior year.
6. All Biology core requirements except Seminar and Philosophy of Origins should be taken by the end of your third year. This gives a solid preparation for the GRE, DAT, or MCAT, and allows maximum freedom to take any electives desired in the senior year.
7. Biology electives (indicated in blue) have been scheduled so that all can be taken without conflict in each term of your senior year. They may be taken earlier than the senior year, but not in place of either core or cognate courses that should have priority. Research in Biology (BIOL 412) is an important elective.
8. The Major Field Achievement Test (MFAT) must be taken in your last term (usually the spring quarter) at PUC.